COURSE DESCRIPTIONS

ACTUARIAL SCIENCES

2053 - MATHEMATICS FOR FINANCIAL ANALYSIS
Simple and compound interest, annuities, amortization, sinking funds, bonds, bond duration, depreciation, capital budgeting, probability, mortality tables, life annuities, life insurance; net premiums and expenses. Cannot be taken for credit in any other Statistics or Actuarial Science. Antirequisite(s): Actuarial Science 2553A/B. Prerequisite(s): Mathematics 1010A/B or Grade 12U Advanced Functions and Introductory Calculus (MCB 4U1) or equivalent, and 10 or 2 courses from Applied Mathematics, Calculus, Linear Algebra, or Mathematics. 3 lecture hours. 1.0 course. Distance.

ANATOMY AND CELL BIOLOGY

3309 - MAMMALIAN HISTOLOGY
A detailed study of the cellular and microscopic structure of the various tissues and organs systems of the body, with emphasis on man and other mammals used in medical research. Systems are examined stressing the relations of structure to function. Prerequisite(s): Registration in third or fourth year. Note: This course is recommended for students with a background in introductory biology. 2 lecture hours, 3 laboratory hours. 1.0 course. Distance.

3319 - SYSTEMIC HUMAN ANATOMY
A description of the structure of the organ-systems of the human body: the nervous system and special senses, musculoskeletal, circulatory, respiratory, digestive, urinary and reproductive systems. Antirequisite(s): Anatomy and Cell Biology 2221. Prerequisite(s): Registration in third or fourth year. A background in introductory biology is recommended. 2 lecture hours, 1 demonstration hour. This is not a laboratory course. 1.0 course. Distance.

ANTHROPOLOGY

1025F - INTRODUCTION TO SOCIOCULTURAL ANTHROPOLOGY
An introduction to the basic concepts used in the anthropological study of non-Western social and cultural institutions that focuses on the unity and diversity of human experience. Topics include kinship, economics, politics, religion, and the present-day conditions of indigenous societies. The ethnography of various peoples is discussed. Antirequisite(s): Anthropology 1020 (formerly Anthropology 1020E). 3 lecture hours. 0.5 course. Distance.

2272F - ANTHROPOLOGY OF TOURISM
This course examines various aspects of tourism from an anthropological point of view. Topics will include the cultural effects of tourism on both hosts and guests, on the political and economic issues involved in tourism, on the connection between tourism and environmental concerns, and on conflict over local resources. Antirequisite(s): Anthropology 1020 (formerly Anthropology 1020E). Prerequisite(s): At least a 0.5 Essay course in any faculty. 3 lecture hours. 0.5 course. Distance.

2290F - PLAGUES AND PEOPLES: CULTURES OF HEALTH AND HEALING
An exploration of the social and cultural basis of health, disease, and healing. We will examine patterns of illness and epidemics, social and cultural aspects of risk, the use of ritual in healing, and the politics of health, among other issues, from an ethnographic and historical perspective. Prerequisite(s): Any Arts and Humanities or Social Science 0.5 or 1.0 Essay course. 3 lecture hours. 0.5 course. Distance.

3325F/G - READINGS IN ANTHROPOLOGY
Individual reading and research of current interest in Anthropology. Students are responsible for making arrangements with an Anthropology faculty member. An application must be completed with approval from the Instructor and the Chair. Applications are available on the Anthropology website. Antirequisite(s): Anthropology 1001A, 1002B, 1201A, 1202B. Prerequisite(s): Registration in third year in any program. Application required. Hours to be arranged with Instructor. 0.5 course. Summer Evening.

4430F/G - SUPERVISED READINGS/RESEARCH IN ANTHROPOLOGY
Individual reading and research of current interest in Anthropology. Students are responsible for making arrangements with an Anthropology faculty member. An application must be completed with approval from the Instructor and the Chair. Applications are available on the Anthropology website. Prerequisite(s): Registration in fourth year in any program with approval from the Instructor and the Department Chair. Hours to be arranged with Instructor. 0.5 course. Summer Evening.

APPLIED MATHEMATICS

1413 - APPLIED MATHEMATICS FOR ENGINEERS I
Limits, continuity, differentiation of functions of one variable with applications, extreme values, integration, the fundamental theorem of calculus, methods and applications of integration to areas, volumes and engineering applications. Sequences and series, convergence, power series. Vector functions, partial differential calculus, gradients, directional derivatives and applications. Antirequisite(s): Calculus 1000A/B, the former Calculus 1000A/B, Calculus 1303A/B, Calculus 1500A/B, Calculus 1501A/B, Mathematics 1225A/B. Prerequisite(s): One or more of Ontario Secondary School Math MHF4U, MCV4U, or Mathematics 0110A/B. 3 lecture hours, 1 tutorial hour. Applied Mathematics 1413 is a suitable prerequisite for any course which lists Calculus 1000A/B or Calculus 1300A/B. Restricted to students in the Faculty of Engineering. 1.0 course. Summer Evening.

2276A - APPLIED MATHEMATICS FOR ELECTRICAL AND MECHANICAL ENGINEERING III
Topics covered include a review of orthogonal expansions of functions and Fourier series and transforms, multiple integration with methods of evaluation in different systems of coordinates, vector fields, line integrals, surface and flux integrals, the Green, Gauss and Stokes theorems with applications. Antirequisite(s): Calculus 2302A/B, Calculus 2303A/B, Calculus 2502A/B, Calculus 2503A/B. Applied Mathematics 2277A/B, the former Applied Mathematics 2411, the former Applied Mathematics 2413. Prerequisite(s): Applied Mathematics 2270A/B. 3 lecture hours, 1 tutorial hour. Restricted to students in the Faculty of Engineering. 0.5 course. Intersession.

BIOCHEMISTRY

2280A - BIOCHEMISTRY AND MOLECULAR BIOLOGY
An introduction to biochemistry with emphasis on protein structure and function, intermediary metabolism and nucleic acid structure and function. Antirequisite(s): Biochemistry 2290A. Prerequisite(s): Either Biology 1001A or 1201A and either Biology 1002B or 1202B. Chemistry 1301A/B and 1302A/B, or the former Chemistry 1100A/B and 1200B. Integrated Science 1001X can be used as a prerequisite in place of Biology 1002B and Chemistry 1302A/B. 3 lecture hours. Note: It is strongly recommended that a course in organic chemistry be taken previously or concurrently (e.g. Chemistry 2213A/B or Chemistry 2273A). 0.5 course. Distance.

4483E - RESEARCH PROJECT AND SEMINAR
The major laboratory course for the Honors Specialization in Biochemistry and Honors Specialization modules combined with Biochemistry. Lectures on laboratory safety, biochemistry, use of animals in research, scientific integrity; an independent research project (topic and advisor chosen by consultation between student and faculty), scientific communication (two seminars and a written report). Antirequisite(s): Anatomy and Cell Biology 4480E, Chemical Biology 4500E, Medical Biophysics 4970E, Medical Sciences 4909F/G, Microbiology and Immunology 4970E, Pathology 4980E, Pathology and Toxicology 4980E, the former Biochemistry 4485E.

Prerequisite(s): Biochemistry 3380G, Biochemistry 3381A and Biochemistry 3382A, with marks in each of at least 70%. Enrolment is limited, and is available only to students in the Honours Specialization modules in Biochemistry, Biochemistry and Cell Biology, Biochemistry and Pathology of Human Disease, Biochemistry and Chemistry, Biochemistry of Infection and Immunity, Computational Biochemistry, and Medical Biophysics and Biochemistry. Students in the Honours Specialization in Biochemistry and Infection and Immunity may substitute one of Microbiology and Immunology 3610F, Microbiology and Immunology 3620G, or the former Microbiology and Immunology 3600G with a minimum mark of 70% in lieu of Biochemistry 3380G as a prerequisite. Students in the Honours Specialization in Computational Biochemistry may substitute Biochemistry 3383F/G with a minimum mark of 70% in lieu of Biochemistry 3383F/G as a prerequisite. 15 hours per week. Enrollment in this course is limited. 1.0 course. Summer Day.

BIOLGy

1001A - BIOLOGY FOR SCIENCE I
The principles of biology taught using an integrative, question-based approach. Topics include inheritance, evolution and ecology. This course is intended for students registered in the Faculty of Science. Antirequisite(s): Biology 1001A, Biology 1225. Prerequisite(s): Grade 12U (SBI4U) Biology or Grade 11U (SB13U) Biology and permission of the Department. A minimum mark of 80% in Grade 12U Biology (SBI4U) is recommended for students registered in a faculty other than the Faculty of Science. 2 lecture hours, 3 laboratory/tutorial hours. Note: The combination of Biology 1001A and Biology 1002B with (appropriate marks) are the prerequisites for senior Biology courses and admission to modules offered by the Department of Biology and the Basic Medical Science Departments. 0.5 course. Summer Day.

1002B - BIOLOGY FOR SCIENCE II
The principles of biology taught using an integrative, question-based approach. This course is primarily intended for students enrolled in the Faculty of Science. Topics include enzyme structure/function, membrane structure/function, bioenergetics, photosynthesis, respiration, molecular genetics. Antirequisite(s): Biology 1202B, Biology 1225. Prerequisite(s): Grade 12U (SBI4U) Biology or Grade 11U (SB13U) Biology and permission of the Department. A minimum mark of 80% in Grade 12U Biology (SBI4U) is recommended for students registered in a faculty other than the Faculty of Science. 2 lecture hours, 3 laboratory/tutorial hours. Note: The combination of Biology 1001A and Biology 1002B (with appropriate marks) are the prerequisites for senior Biology courses and admission to modules offered by the Department of Biology and the Basic Medical Science Departments. 0.5 course. Summer Day.

1225 - AN INTRODUCTION TO THE BIOLOGY OF ORGANISMS
A study of the whole organism with emphasis on organization, growth, development, integration, reproduction and heredity.
3220Z - FIELD STUDIES IN BIOLOGY
Specialized field courses given by biologists from Ontario universities at various times during the year. Students should be prepared to travel and live expenses.
Prerequisite(s): Permission of the Department of Biology. See the Department of Biology office in January each year for list of offerings, requirements, and credits. This course may be used as a half laboratory course.
Sessions and hours by arrangement. 0.5 course. Summer Day.

4257Z - FIELD STUDIES IN BIOLOGY
Specialized field courses given by biologists from Ontario universities at various times during the year. Students should be prepared to travel and live expenses.
Prerequisite(s): Permission of the Department. See the Department of Biology office in January each year for list of offerings, requirements, and credits. This may be used as a half laboratory course.
Sessions and hours by arrangement. 0.5 course. Summer Day.

4258Z - FIELD STUDIES IN BIOLOGY
Specialized field courses given by biologists from Ontario universities at various times during the year. Students should be prepared to travel and live expenses.
Prerequisite(s): Permission of the Department. See the Department of Biology office in January each year for list of offerings, requirements, and credits. This may be used as a half laboratory course.
Sessions and hours by arrangement. 0.5 course. Summer Day.

BIOLOGY ADMINISTRATION
1220E - INTRODUCTION TO BUSINESS
Business Administration 1220E, offered by the Ivey Business School, gives students from all faculties the opportunity to learn business fundamentals in finance, marketing, operations, organizational behavior and general management. The course is delivered using Ivey’s renowned case method, which challenges students to learn by doing, within an active class environment of no more than 85 students. Students explore real business issues, make management decisions, defend their position, and take action. This course will be particularly appealing to those students who want a glimpse of Ivey’s unique learning experience.
Prerequisite(s): Business Administration 1220, the former Business Administration 1200, 1.0 course. Summer Evening.

2257 - ACCOUNTING & BUSINESS ANALYSIS
Prerequisite for entry to Honors Business Administration. Course Divisions: (1) Financial Accounting - development of financial statements, and the assessment of their uses and limitations. (2) Business Analysis and Management Accounting - using case studies with an emphasis on smaller businesses, students learn various quantitative decision-making tools highlighted by an entrepreneurial feasibility study.
Prerequisite(s): Five courses at University level. 3 lecture hours. 1.0 course. Summer Evening. Intersession.

CALCULUS
1000A - CALCULUS I
Prerequisite(s): Calculus 1200A/B, the former Calculus 1100A/B, Applied Mathematics 1413. 4 lecture hours. 0.5 course. Distance. Intersession.

3218F - BIOLOGY OF THE FUNGI
This course provides an introduction to the fungi with emphasis on their biology, ecology, genetics and interactions with other organisms, including humans and their crops. Emphasis is on the true fungi, including yeasts, with brief treatment of other fungus-like microbes of the Kingdoms Chromalveolata and Amoebozoa.
Prerequisite(s): At least 1.0 course in Biology at the 2200-level or higher. 2 lecture hours. 3 laboratory/tutorial hours. 0.5 course. Intersession.

Prerequisite(s): A minimum mark of 55% in one of Calculus 1000A/B, Calculus 1500A/B or the former Calculus 1100A/B, 4 lecture hours. 0.5 course. Summer Day.

1501A - CALCULUS II FOR MATHEMATICAL AND PHYSICAL SCIENCES
Students who intend to pursue a degree in Actuarial Science, Applied Mathematics, Astronomy, Mathematics, Physics, or Statistics should take this course. Techniques of integration, The Mean Value Theorem and its consequences, Taylor series with applications; parametric and polar curves with applications; first order linear and separable differential equations with applications.
Prerequisite(s): Calculus 1100A/B, Applied Mathematics 1413. 4 lecture hours. 0.5 course. Summer Day.

2402A - CALCULUS WITH ANALYSIS FOR STATISTICS
Prerequisite(s): Calculus 1301A/B or Calculus 1501A/B or Applied Mathematics 1413, in each case with a minimum mark of 55%.
3 lecture hours. 0.5 course. Summer Evening.

CENTRE FOR GLOBAL STUDIES
1022F - INTRODUCTION TO GLOBALIZATION
This course offers an interdisciplinary introduction to the dominant material and cultural trends under the conditions of economic globalization. Students will explore the global economy, the globalization of the capitalist mode of production, transnational resource flows, responses to inequality and resistance.
Prerequisite(s): Centre for Global Studies 1000E. 3 lecture hours. 0.5 course. Intersession.

1023F - INTRODUCTION TO GLOBAL DEVELOPMENT
This course is an introduction to the interdisciplinary field of international development studies with the focus on investigating the notion of ‘poverty’. It will examine the roles of development organizations, states and civil society in addressing globally identified development issues through the negotiation of global development agendas.
Prerequisite(s): Centre for Global Studies 1000E, Centre for Global Studies 2001F/G.
3 lecture hours. 0.5 course. Intersession.

CHEMISTRY
1301A - DISCOVERING CHEMICAL STRUCTURE
An introduction to the foundational principles of chemical structure and properties, emphasizing their relevance to modern science. Topics include: atomic structure, theories of chemical bonding, structure and stereochemistry of organic molecules, and structure of coordination complexes.
Antirequisite(s): The former Chemistry 1024A/B, the former Chemistry 1100A/B.
Prerequisite(s): Grade 12U Chemistry (SCH4U) or equivalent. 3 lecture hours, 1.5 laboratory hours (3 hours every other week). 0.5 course. Intersession.

1302B - DISCOVERING CHEMICAL ENERGETICS
An examination of how the fundamentals of energetics influence chemical processes. Topics include: gases, thermodynamics and thermochemistry, chemical equilibria, solubility, weak acids and bases, electrochemistry, and chemical kinetics.
Antirequisite(s): The former Chemistry 1024A/B, the former Chemistry 1100B.
Prerequisite(s): Grade 12U Chemistry (SCH4U) or equivalent. Grade 12U Advanced Functions (MHF4U) or Calculus & Vectors (MCV4U), or Mathematics 0101A/B or 0105A/B, is strongly recommended.
3 lecture hours, 1.5 laboratory hours (3 hours every other week). 0.5 course. Intersession.
2213A - ORGANIC CHEMISTRY FOR LIFE SCIENCES
An introduction to the basic concepts of structure, stereochemistry and reactions in organic chemistry with an emphasis on its connections to the biological, health or medical sciences.
Prerequisite(s): Chemistry 2273A.
Antirequisite(s): Chemistry 1301A/B and Chemistry 1302A/B, or the former Chemistry 1100A/B and the former Chemistry 1200B, or the former Chemistry 1050.
3 lecture hours, 1.5 laboratory hours (3 hours every other week).
Note: The combination of Chemistry 2213A/B and Chemistry 2223B provides the equivalent of a full course in Organic Chemistry with a laboratory, which is a prerequisite for some professional programs. 0.5 course. Interession.

2213B - ORGANIC CHEMISTRY OF BIOLOGICAL MOLECULES
An examination of the chemistry of naturally occurring molecules, emphasizing organic compounds of importance in the Biological and Health Sciences.
Prerequisite(s): Chemistry 2213A/B or Chemistry 2283G.
3 lecture/tutorial hours, 1.5 laboratory hours (3 hours every other week).
Intended primarily for students in Biology, and students interested in the Health or Medical Sciences.
Note: The combination of Chemistry 2213A/B and Chemistry 2223B provides the equivalent of a full course in Organic Chemistry with a laboratory, which is a prerequisite for some professional programs. 0.5 course. Interession.

CHILDHOOD AND SOCIAL INSTITUTIONS

3393A - SPECIAL TOPICS IN CHILDHOOD AND SOCIAL INSTITUTIONS
Topic and course description will be available at time of registration.
Prerequisite(s): Childhood and Social Institutions 1025F/G or the former Childhood and Social Institutions 1020.
3 lecture/tutorial hours. 0.5 course. Interession.

3395A - SPECIAL TOPICS IN CHILDHOOD AND SOCIAL INSTITUTIONS
Topic and course description will be available at time of registration.
Prerequisite(s): Childhood and Social Institutions 1025F/G or the former Childhood and Social Institutions 1020.
3 lecture/tutorial hours. 0.5 course. Interession.

CHINESE

2242F - REPRESENTATIVE WORKS IN TRADITIONAL CHINESE LITERATURE
A survey of major works of prose by pre-modern Chinese writers. This course focuses on reading texts and analyzing their textual structure, aesthetic values, and historical contexts. Attention will also be paid to the evolution of the Chinese language from the Classical to the vernacular.
3 hours 0.5 course. Summer Day.

2243F - THE CHINESE DIASPORA AND ITS LITERARY REPRESENTATION
A study of Chinese literary works written by Chinese-Canadian writers. This course examines the Chinese diaspora in relation to social constructions of ethnicity, identity, community, gender and sexuality. It also looks into reflections on the relations of the diasporic community, the homeland and the host country.
3 hours 0.5 course. Summer Day.

2244G - REPRESENTATIVE WORKS IN MODERN CHINESE LITERATURE
A survey of major works of prose by modern Chinese writers. Selected works will be discussed in relation to the writers’ ideas of political involvement, social change, revolution and the function of literature. Events that have shaped modern Chinese history and society will also be examined.
3 hours 0.5 course. Summer Day.

2245F - CINEMA IN THE CHINESE MAINLAND
This course examines representative films produced in major historical periods in the Chinese Mainland, with an emphasis on issues of nationalism and national identity, as well as cultural, social, and political changes occurred and are occurring in 20th century and contemporary China.
3 hours 0.5 course. Interession.

2346G - CHINESE CINEMA IN TAIWAN & HONG KONG
This course examines representative films produced in major historical periods in Taiwan and Hong Kong, with an emphasis on issues of nationalism and national identity, as well as cultural, social, and political changes occurred and are occurring in 20th century and contemporary Taiwan and Hong Kong.
3 hours 0.5 course. Interession.

2601A - THE POLITICAL AND SOCIO-ECONOMIC FOUNDATIONS OF MODERN CHINA
A survey of the social, political, and economic factors that shape modern China. Taught in English.
Prerequisite(s): The former Centre of Global Studies 2202A/B.
3 hours 0.5 course. Interession.

2602B - THE CULTURAL FOUNDATIONS OF MODERN CHINA
A survey of the artistic, philosophical, and religious factors that shape modern China. Taught in English.
Prerequisite(s): The former Centre for Global Studies 2203A/B.
3 hours 0.5 course. Interession.

3340A - BUSINESS CHINESE 1
This course is intended for students who can read and write Modern Standard Chinese. Students will study business terms, communication styles and formats, and acquire linguistic and cultural knowledge for conducting business in Chinese. Students will develop competence through practical experience in reading and writing market reports and analysing contracts.
4 hours 0.5 course. Interession.

3341B - BUSINESS CHINESE 2
This course is intended for students who can read and write Modern Standard Chinese. Students will study business terms, communication styles and formats, and acquire linguistic and cultural knowledge for conducting business in Chinese. Students will develop competence through practical experience in reading and writing market reports and analysing contracts.
4 hours 0.5 course. Interession.

COMPUTER SCIENCE

1026A - COMPUTER SCIENCE FUNDAMENTALS I
The nature of Computer Science as a discipline; the design and analysis of algorithms and their implementation as modular, reliable, well-documented programs written in a modern programming language. Intended for students with little or no background in programming.
Prerequisite(s): Computer Science 1025A/B, Computer Science 2120A/B. Engineering Science 1036A/B. Digital Humanities 2220A/B.
3 lecture hours, 2 laboratory/tutorial hours. 0.5 course. Summer Evening.

1027B - COMPUTER SCIENCE FUNDAMENTALS II
An introduction to both Computer Science 1026A/B and Computer Science 1026A/B. Data organization and manipulation; abstract data types and their implementations in a modern programming language; lists, stacks, queues, trees, pointers, recursion, file handling and storage.
Prerequisite(s): Computer Science 1037A/B, Computer Science 2121A/B, Digital Humanities 2221A/B.
3 lecture hours, 1 laboratory/tutorial hour. 0.5 course. Summer Evening.

1032A - INFORMATION SYSTEMS AND DESIGN
Techniques used for determining technological needs of businesses; building and managing systems to meet those needs; development roles of individuals and organizations; planning and management of concepts, personnel and processes; related software tools (spreadsheets, databases).

2440 - INDEPENDENT STUDY IN LEADERSHIP STUDIES
Readings and discussion on, or field experience in, leadership which are agreed upon through Consultation between the student and the supervising professor.
3 lecture hours. 1.0 course. Summer Evening.
COURSE DESCRIPTIONS

DISABILITY STUDIES

1010A - EXPLORING DISABILITY
Explores provocative ethical and practical Disability Studies topics using a Liberal Arts framework. Students actively engage both sides of cases with legal, medical, and recreational significance. Examines how disability, mental health and neuro-diversity intersect with modern culture and social institutions.

Prerequisite(s): The former Interdisciplinary Studies 1010A/B
3 lecture hours. 0.5 course. Distance.

2023B - DISABILITY SPORTS & RECREATION
Explore the dynamic sports and recreation venues where people with and without disability are involved in working towards diverse forms of participation and inclusion. These are crucial spheres of self-expression, sociability, integration and contribution. Recreational and elite sports, youth and adult programs and camp settings are covered.

Prerequisite(s): The former Disability Studies 2211A/B. 0.5 course. Distance.

2292A - SPECIAL TOPICS IN DISABILITY STUDIES
Topic and course description will be available at time of registration.

Prerequisite(s): Disability Studies 1010A/B or the former Interdisciplinary Studies 1010A/B
3 hours. 0.5 course. Distance.

EARTH SCIENCE

1070A - INTRODUCTION TO THE GEOLOGY AND RESOURCES OF EARTH
An introduction to geology covering rock forming minerals and rock forming processes. Emphasis will be placed on how mineral and hydrocarbon resources develop. A survey of the geological record is carried out to illustrate how resources are classified and distributed through time.

Prerequisite(s): Earth Sciences 1022A/B, Earth Sciences 1018A/B.
Only available online, purchase of Rock and Mineral Kit required. 0.5 course. Distance.

1086F - ORIGIN AND GEOLOGY OF THE SOLAR SYSTEM
Our best perception of the origin of the Universe, the Milky Way Galaxy, and our Solar System, meteorites, asteroids, comets and the formation of planets. The slow growth of Planetary Science reason and analysis of hypotheses. Why and how Earth evolved along a path radically different than the other planets.

Prerequisite(s): Earth Sciences 2232F/G, Astronomy 2201A/B, 2232F/G, or the former Earth Sciences 2001F/G.
The equivalent of 3 lecture hours per week. Offered only online (see Western Distance Studies), 0.5 course. Distance.

ECONOMICS

0012B - INTRODUCTION TO MACROECONOMICS
This course introduces students to current Canadian and international economic issues with a focus on large scale economic performance and measuring economic performance, including topics in economic instability and fiscal policy, banking and monetary policy, and international trade and economic growth.

Prerequisite(s): Ontario High School C1A4U or equivalent.
Prerequisite: Registration in a Preliminary Year program at Brescia University College
3 hours.
Students are strongly advised to take Economics 0011A/B before taking Economics 0012A/B.
0.5 course. Intersession.

1021A - PRINCIPLES OF MICROECONOMICS
The problem of scarcity and its implications, choice, opportunity cost, socialization and exchange; supply and demand; economic choices of households and firms; competition and monopoly; resource markets; public policy; income distribution.

Prerequisite(s): The former Economics 1020.
2 lecture hours, 1 tutorial hour (Main). 3 lecture hours (Brescia, Huron, King’s). 0.5 course. Distance. Summer Evening.

1022A/B - PRINCIPLES OF MACROECONOMICS
National income, aggregate supply and aggregate demand; inflation, unemployment and interest rates; money and monetary institutions; economic growth; balance of payments; and exchange rates.

Prerequisite(s): Economics 1021A/B must be taken prior to or at the same time as 1022A/B. Students are strongly advised to take Economics 1021A/B before taking Economics 1022A/B.
2 lecture hours, 1 tutorial hour (Main). 3 lecture hours (Brescia, Huron, King’s). 0.5 course. Distance. Summer Evening.

2122A - ECONOMETRICS I
An introduction to econometric description and inference which covers: descriptive statistics for cross-section and time-series samples; probability; probability distributions and random variables; estimators and sampling distributions; confidence intervals and tests of hypotheses; simple linear regression.

Note: Students wishing to enroll in higher-level courses in the Department of Statistics and Actuarial Sciences are encouraged to consult that department.


Prerequisite(s): Economics 1021A/B and Economics 1022A/B, or Economics 2001A/B, and one of MCV4U, Mathematics 0110A/B, Calculus 1000A/B, Calculus 1500A/B, Mathematics 1251A/B or the former Calculus 1100A/B.
3 lecture hours. 0.5 course. Summer Evening.

2123B - ECONOMETRICS II
An introductory course in regression analysis which covers: multivariate probability distributions; the classical linear regression model; heteroskedasticity; autocorrelation; introduction to time series; dynamic linear models; diagnostic testing; instrumental variables; nonlinearities and limited dependent variables.

Prerequisite(s): Economics 2232A/B.
Prerequisite(s): Economics 2122A/B and 0.5 course from: Mathematics 1225A/B, Calculus 1000A/B, Calculus 1500A/B or the former Calculus 1100A/B.
3 lecture hours. 0.5 course. Summer Evening.

2150A - INTERMEDIATE MICROECONOMIC THEORY I
Theories of the behavior of consumers and firms and the theory of competitive markets.

Prerequisite(s): Economics 2260A/B.
Prerequisite(s): Economics 1021A/B and Economics 1022A/B, or Economics 2001A/B, and one of MCV4U, Mathematics 0110A/B, Calculus 1000A/B, Calculus 1500A/B, Mathematics 1251A/B or the former Calculus 1100A/B.
3 lecture hours. 0.5 course. Distance. Summer Evening.

2151B - INTERMEDIATE MICROECONOMIC THEORY II
Theories of imperfectly competitive markets and the markets for factors of production; game theory; general equilibrium and welfare economics.

Prerequisite(s): Economics 2262A/B.
Prerequisite(s): Economics 2150A/B.
3 lecture hours. 0.5 course. Summer Evening.

2152A - INTERMEDIATE MACROECONOMIC THEORY AND POLICY I
National income accounts, price indexes, theories of aggregate demand and aggregate supply; rational expectations; the determination of real income, employment, wages, the rate of interest and the price level.

Prerequisite(s): Economics 2220A/B.
Prerequisite(s): Economics 1021A/B and Economics 1022A/B, or Economics 2001A/B, and one of MCV4U, Mathematics 0110A/B, Calculus 1000A/B, Calculus 1500A/B, Mathematics 1251A/B or the former Calculus 1100A/B.
3 lecture hours. 0.5 course. Summer Evening.

2153B - INTERMEDIATE MACROECONOMIC THEORY AND POLICY II
Inflation; unemployment; economic growth and fluctuations; the determination of the balance of payments and the exchange rate; and monetary and fiscal stabilization policies in closed and open economies.

Prerequisite(s): Economics 2221A/B.
Prerequisite(s): Economics 2152A/B.
3 lecture hours. 0.5 course. Summer Evening.

2156A - LABOUR ECONOMICS - BARGAINING
The economic and legal aspects of labor relations will be approached under some or all of the following headings: the history and origin of the trade union movement, the economics of trade unions, labor law, wage-price controls and the relationship of unions, firms and governments.

Prerequisite(s): Economics 3344A/B and Economics 3345A/B.
Prerequisite(s): Economics 2011A/B and Economics 1022A/B, or Economics 2001A/B.
3 lecture hours. 0.5 course. Intersession.

2167A - INTERNATIONAL ECONOMICS
This course is an introduction to international economics. Topics will include the standard theories of international trade, trade policies, and international labour mobility, foreign direct investment, fixed and flexible exchange rates, international capital mobility and macroeconomic adjustment policies.

Prerequisite(s): Economics 2163A/B, Economics 2164A/B, Economics 3352A/B, Economics 3353A/B.
Prerequisite(s): Economics 2011A/B and Economics 1022A/B, or Economics 2001A/B.
3 lecture hours. 0.5 course. Intersession.

ENGINEERING SCIENCE

1021A - PROPERTIES OF MATERIALS IN ENGINEERING
An introduction to the relationship between the microstructure and engineering properties of metals, ceramics, polymers, semiconductors and composites.

3 lecture hours, 2 tutorial hours. 0.5 course. Intersession.

1022A - ENGINEERING STATICS
Analysis of forces on structures and machines, including addition and resolution of forces and moments in two and three-dimensions. The application of the principles of equilibrium. Topics: trusses; frames; friction; and centroids. 2 lecture hours/week; 1 tutorial hour/week for ten weeks each term - this is equivalent to 3 lecture hours/week and 2 tutorial hours/week over one term. 0.5 course. Summer Day.

1036A - PROGRAMMING FUNDAMENTALS FOR ENGINEERS
Designing, implementing and testing computer programs using a modern object-oriented language such as C++ to fulfill given specifications for small problems using sound programming principles and processes. Awareness of the engineering aspects of the process of constructing a computer program.

Prerequisite(s): Computer Science 1025A/B, Computer Science 1026A/B.
3 lecture hours, 2 laboratory hours. 0.5 course. Intersession.

449BF - ENGINEERING ETHICS, SUSTAINABLE DEVELOPMENT AND THE LAW
This course will cover professionalism, ethical theory, the code of ethics and enforcement, the environment, and contracts and risk.

Prerequisite(s): Completion of third year of the Engineering program.
3 lecture hours. 0.5 course. Intersession.
ENGLISH

1020E - UNDERSTANDING LITERATURE TODAY
By studying a broad range of exciting and important literary works from the past and present, this course will increase your understanding and appreciation not just of the richness and power of the works themselves, but also of the role of literature in reflecting and shaping our perceptions of the world and of ourselves.
Antirequisite(s): English 1022E, English 1035E.
Prerequisite(s): Grade 12U English or permission of the Department. For part-time students who have been admitted without the OSSD, this permission will be granted as a matter of course.
3 hours. 1.0 course. Distance.

2017 - READING POPULAR CULTURE
"If Shakespeare were alive today, he'd be writing for television." This course addresses the many forms of popular culture, including television, music, popular fiction and film, urban myths, and celebrities. The aim of this course is to encourage students to develop a critical understanding of all aspects of popular culture.
3 lecture hours. 1.0 course. Summer Evening.

2033E - CHILDREN'S LITERATURE
Readings from significant books written for children, selected primarily for literary quality. Some attention will be given to the historical evolution of "Children's Literature" as a separate class, but the principal aim of the course will be to consider the nature and development of the two major genres: nonsense verse and romance.
Antirequisite(s): English 2730F/G (King's).
3 hours. 1.0 course. Distance. Intersession.

2071F - SPECULATIVE FICTION: SCIENCE FICTION
From Mary Shelley's Frankenstein to Ridley Scott's Blade Runner, a consideration of the history and development of science fiction. Will include science fiction themes such as the Other, new technologies, chaos theory, cybernetics, paradoxes of space/time travel, first contact, and alien worlds.
3 hours. 0.5 course. Distance.

2072F - SPECULATIVE FICTION: FANTASY
A study of the purposes and historical origins of fantasy, and modern developments in fantasy: alternate worlds, horror or ghost stories, sword & sorcery, heroic fantasy. May include writers such as Tolkien, Simmons, Peake, Herbert, Beagle, Rowling.
3 hours. 0.5 course. Distance.

2401E - AMERICAN LITERATURE SURVEY
This course offers a survey of important texts and authors from the Puritan and Revolutionary periods to the present. It addresses not only the major movements and styles of American literature but also the work of less familiar Indigenous and ethnic authors.
Antirequisite(s): English 2341E, 2342F/G, 2343F/G, 2344E, 2345F/G, 2346F/G and 3664E, or the former English 2308E.
Prerequisite(s): At least 60% in 1.0 of English 1020E or English 1022E or English 1024E or English 1035E or English 1036E or English 1042E or both of English 1027F/G and English 1028F/G, or permission of the Department.
3 hours. 1.0 course. Distance.

2550F - SPECIAL TOPICS IN ENGLISH AND CULTURAL STUDIES
Consult the department for current offerings.
Prerequisite(s): At least 60% in 1.0 of any 1000-level English course, or permission of the Department.
3 hours. 0.5 course. Intersession.

FAMILY STUDIES

1010A - INTRODUCTION TO FAMILIES IN CANADA
This introductory course explains the field of Family Studies, examining the factors that shape family life, from individual psychology to group dynamics to social forces such as the workplace, the economy, and the government. Families are considered across the life course, and family diversity is highlighted.
Antirequisite(s): Family Studies 1020.
3 lecture hours. 0.5 course. Intersession.

1015A - CLOSE RELATIONSHIPS
Intimate relationships, like those found between marital or dating partners, are examined from a social science perspective, looking at love, mate selection, attachment, loneliness, conflict, relationship dissolution, and factors contributing to success along both dimensions. Other close relationships also are considered, such as those between friends or parents and children.
3 lecture hours. 0.5 course. Intersession.

2235 - INTRODUCTION TO COUNSELLING
This course introduces students to the basics of counselling within the context of the study of Family Studies. Students will learn about the history of the counselling professions, will gain an understanding of various approaches, skills, and work settings, and will consider the role of counselling among diverse populations, including adolescents, couples, and families. Topics include ethical and legal aspects, assessment, individual and group counselling, and research, use of technology, and psychological issues having to do with counselling.
Prerequisite(s): Any Family Studies 1000-level course or permission of the instructor.
3 hours. 1.0 course. Summer Evening.

2260A - MIDDLE CHILDHOOD AND ADOLESCENCE
This course investigates middle childhood and adolescence, exploring these developmental stages as they intersect with family, cultural, and political contexts.
Prerequisite(s): Any Family Studies 1000-level course or permission of the instructor.
3 lecture hours. 0.5 course. Summer Day.

2300F - UNDERSTANDING FAMILY RESEARCH
Students will become familiar with the primary research methods used by Family Studies professionals. Other topics such as research ethics will be covered.
Prerequisite(s): 1.0 from Family Studies courses at the 1000 level.
3 lecture hours. 0.5 course. Intersession.

3340A - FAMILY RESILIENCE
This course explores the topic of family resilience, using a strengths-based perspective to examine how and why some families are able to survive and rebound from adversity, trauma, or persistent challenges over the life course, while others do not.
Prerequisite(s): 1.0 Family Studies courses at the 2000 level, or permission of instructor
3 lecture hours. 0.5 course. Intersession.

3345A - FAMILY VIOLENCE
Family violence is examined from a variety of theoretical perspectives, such as feminist, exchange, and systems. Dating violence, violence in marriage and marriage-like relationships, child abuse, and elder abuse are considered.
Prerequisite(s): 1.0 units of Family Studies 2000-level courses, or enrollment in third or fourth year of the Major in Criminal Justice or Honors Specialization in Community and Criminal Justice modules, or permission of instructor.
3 lecture hours. 0.5 course. Summer Day.

FILM STUDIES

2166A - ZOMBIE FILM
This course considers how this horror subgenre has developed over the past century and why it continues to resonate with filmmakers and filmgoers. Using various approaches, we'll examine the cultural anxieties the films raise in relation to such issues as gender, sexuality, race, capitalism, technology, religion, and the environment.
Antirequisite(s): Film Studies 2194A/B, if taken in 2012-2013 or 2015-2016; Film Studies 2195A/B, if taken in 2013-2014. 2 lecture/seminar hours, 1.3-hour lecture/screening. 0.5 course. Distance.

FIRST NATIONS STUDIES

2112 - IROQUOIAN LANGUAGE AND CULTURE
In this course the student will learn the basics of a particular North American indigenous language (Mohawk) and will examine the relationships of that language to various culturally relevant concepts.
Antirequisite(s): Anthropology 2112.

Preerequisite(s): Any Arts and Humanities or Social Science 0.5 or 1.0 Essay course.
3 hours. 1.0 course. Summer Day.

2919F - THE IROQUOIANS: THEIR HISTORY AND CULTURE
An examination of the culture and history of the Iroquoian Peoples from European contact to present day as presented by historical and contemporary writings and interpretation of events. Students will use a combination of primary and secondary sources drawn from both Iroquoian and Non-Iroquoian traditions.
Prerequisite(s): Registration in second year or higher of any program.
3 lecture hours. 0.5 course. Summer Day.

3001F - SPECIAL TOPICS IN FIRST NATIONS STUDIES
Special topics of current interest in the First Nations. List of special topics may be available in the Program office.
Prerequisite(s): Registration in third year in any program.
3 lecture/seminar hours. 1.0 course. Summer Day.

3003 - SPECIAL TOPICS IN FIRST NATIONS STUDIES
Topic available in the office of First Nations Studies.
Prerequisite(s): One 2000-level First Nations course or permission of the Director of First Nations Studies.
3 lecture/seminar hours. 1.0 course. Summer Day.

3011F - READINGS IN FIRST NATIONS STUDIES
Individual reading and research of current interest in First Nations topics. Students must make arrangements with a Professor in the First Nations Studies program. An application must be completed with approval from the Instructor and the Director. Applications are available in the First Nations Studies office.
Prerequisite(s): Third of fourth year registration in any program with approval of the Director.
Hours to be arranged with the Instructor. 0.5 course. Summer Evening.

4011F - SUPERVISED READING/RESEARCH IN FIRST NATIONS STUDIES
Individual reading and research of current interest in First Nations topics. Student must make arrangements with a Professor in the First Nations Studies program. An application must be completed with approval from the Instructor and the Director. Applications are available in the First Nations Studies office.
Prerequisite(s): Fourth year registration in any program with the approval of the Director.
Hours to be arranged with the Instructor. 0.5 course. Summer Evening.

4022E - FIELD SCHOOL IN FIRST NATIONS STUDIES
An advanced seminar course combining in-class discussions of theoretical texts, research papers alongside community-based research. Students will be trained in appropriate methodologies and ethics of working with First Nations Communities. Areas of research and instruction may include land claims, self-government, education, health care, and urban issues.
Prerequisite(s): Registration in fourth year, a 70% average in First Nations Studies, 1.5 courses from First Nations Studies 3140F/G, 3306F/G, 3722F/G, 3911F/G, 3921F/G, 3917F/G, or the former First Nations Studies 3141F/G or permission of the instructor.
3.0 hours seminar/field school (practicum), 1.0 course. Intersession.

FOODS AND NUTRITION

1021 - NUTRITION FOR MODERN LIVING
A survey of human nutritional needs including nutritional requirements, nutrient functions and sources of nutrients in foods. Maternal and infant nutrition, food additives, food legislation, world food problems, and other current topics.
Antirequisite(s): Foods and Nutrition 1030E or Foods and Nutrition 2121.

Prequisite(s): Any Arts and Humanities or Social Science 0.5 or 1.0 Essay course.
3 hours. 1.0 course. Summer Day.

2919F - THE IROQUOIANS: THEIR HISTORY AND CULTURE
An examination of the culture and history of the Iroquoian Peoples from European contact to present day as presented by historical and contemporary writings and interpretation of events. Students will use a combination of primary and secondary sources drawn from both Iroquoian and Non-Iroquoian traditions.
Prerequisite(s): Registration in second year or higher of any program.
3 lecture hours. 0.5 course. Summer Day.
Prerequisite(s): Grade 11 (or higher) Biology and Chemistry are highly recommended as preparation for this course.
3 lecture/tutorial hours. 1.0 course. Summer Evening.

2121 - INTRODUCTION TO HUMAN NUTRITION
An introduction and overview of the basic principles of human nutrition. Exploration of the facts and myths surrounding the subject.
Prerequisite(s): Foods and Nutrition 1021, 1030E.
Prerequisite(s): Registration in the Nutrition and Families modules (Honors Specialization, Specialization, Major or) by permission of the Division. Grade 11 (or higher) Biology and Chemistry are highly recommended as preparation for this course.
3 lecture hours. 1.0 course. Summer Evening.

2232 - PRINCIPLES OF FOOD SCIENCE
A study of the physical structure, chemical composition and nutritive value of foods with emphasis on the effect on a finished product of the physical and chemical conditions, the proportion of ingredients and manipulative techniques. Discussion of aesthetic qualities and food economics.
Prerequisite(s): Registration in the BSc (Foods and Nutrition) or BSc (Human Ecology) programs.
Corequisite(s): Foods and Nutrition 1030E, Chemistry 2003A/B or Chemistry 2233A/B.
3 lecture hours, 3 laboratory hours. 1.0 course. Intersession.

3344A - DIET AND NUTRITIONAL ASSESSMENT
A critical survey of the methods used in the assessment of food and nutrient intakes and nutritional status of communities, groups and individuals, in both health and disease.
Prerequisite(s): Foods and Nutrition 1030E or Foods and Nutrition 1021 or Foods and Nutrition 2121. Registration in the Foods and Nutrition or Nutrition and Families modules (Honors Specialization, Specialization, Major, Minor in Foods and Nutrition). Pre- or Corequisite(s): Foods and Nutrition 2241A/B.
3 lecture hours. 0.5 course. Intersession.

3348A - FOOD PRODUCTION MANAGEMENT I
The application of scientific principles to the procurement, storage, processing and service of institutional food. Menu-planning to meet nutritional requirements while working under the constraints of budgets and the available food supplies, equipment and staff. Food trends, sanitation and safety.
Prerequisite(s): Registration in the Foods and Nutrition or Nutrition and Families or Management and Organizational Studies modules (Honors Specialization, Specialization, Major, Minor in Foods and Nutrition). Pre- or Corequisite(s): Foods and Nutrition 2241A/B.
3 lecture hours. 0.5 course. Intersession.

3351A - CLINICAL NUTRITION I
Introduction to therapeutic nutritional care/service, modifications of normal diet to meet special nutritional needs, menu planning; documentation of nutritional care.
Prerequisite(s): Foods and Nutrition 2241A/B. Registration in the Foods and Nutrition or Nutrition and Families modules (Honors Specialization, Specialization, Major, Minor in Foods and Nutrition). Pre- or Corequisite(s): Foods and Nutrition 3344A/B.
3 lecture hours. 0.5 course. Intersession.

3373A - NUTRITION AND PHYSICAL ACTIVITY
An integrative study of the impact of various levels of physical activity and in-activity on nutritional needs and food and nutrient intakes based on current research and recommendations with attention to popular half-truths and myths.
Prerequisite(s): Foods and Nutrition 1030E or Foods and Nutrition 1021 (with a mark of at least 70%) or Foods and Nutrition 2121 (with a mark of at least 70%). Registration in the Foods and Nutrition or Nutrition and Families modules (Honors Specialization, Specialization, Major, Minor in Foods and Nutrition). Pre- or Corequisite(s): Foods and Nutrition 2241A/B or Foods and Nutrition 2245A/B.
3 lecture hours. 0.5 course. Intersession.

4901Y - DIETETIC SIMULATION PRACTICE
Provides an overview of processes involved in patient care, counselling, nutritional/community assessment, clinical activities for disease conditions, electronic patient records, data systems, clinical interface with food service operations.
Simulation exercises engage students in critical thinking, clinical reasoning and evidence-based decision-making, raise awareness and allow the assessment of students competencies to practice.
0.5 course. Intersession.

4902Y - REGULATORY, LEGAL AND ETHICAL ISSUES OF DIETETIC PRACTICE
An exploration of ethical issues, including ethics and critical incidents; review boards, current national/international standards/guidelines, legal principles/issues related to informed consent, liability, and regulatory and legal issues related to dietetic practice. Ethical dilemmas and their resolution will provide opportunities for developing competence and judgment skills, attitudes and confidence.
0.5 course. Intersession.

4903Y - PRACTICE-BASED DIETETIC RESEARCH
Provides an overview of evidence-based practice, the grant-writing process, budgetary aspects of grants, budgeting and managing project costs/cash flow/audits and negotiating agreements. Information management and knowledge transfer will be emphasized as they report on their research projects at the end of their placements.
0.5 course. Intersession.

4904Y - PRACTICUM
Students complete 1300 hours of practice in varied practice areas and locations. They work on-site or conduct site-related work on a predetermined schedule, typically 30 - 35 hours per week. Students must successfully complete the practical training in all areas to satisfy the practicum requirements for the diploma.
0.5 course. Intersession.

FRENCH

1910 - UNIVERSITY FRENCH (LEVEL I)
A study of the French language based on cultural, written material and basic grammar problems.
Prerequisite(s): at Main campus: French 1900E, French 1999. Antirequisite(s): at Brescia, Huron, King’s campus: French 1900E.
Prerequisite(s): Ontario Grade 12 French (Core, Extended or Immersion) or equivalent, or French 1010 or French 1011A/B or French 1011A/B or permission of the Department of French Studies.
4 lecture/tutorial/labouratory hours.
Note at Main campus: Students who have Grade 12 French but have not taken French courses for more than 3 years, or have an average below 75% in Grade 12 French, should consult the Department of French Studies.
Note at Brescia, Huron, King’s campus: Students who have Grade 12 French but have not taken French courses for more than 3 years, should consult the Department, 1.0 course. Intersession.

2404A - FRENCH AND FRANCOPHONE CULTURES: FRANCE: ENLIGHTENMENT TO POSTMODERNITY (VERSION I)
Using a multimedia approach, this civilization course examines the historical, political, cultural and artistic evolution of France, from the eighteenth century to modern times. Classes are taught in French. This course complements French 2404A/B.
Antirequisite(s): French 2144A/B.
Prerequisite(s): French 1900E or French 1910, or French 1999 or permission of the Department of French Studies, based on Placement Test.
3 lecture/tutorial/hours, 0.5 course. Intersession.

2600E - INTRODUCTION TO FRENCH LITERATURE
A study in depth of some major French texts, with training in the skills of literary analysis.
Antirequisite(s): French 2605F/G, French 2606F/G.
Prerequisite(s): French 1900E or French 1910 or French 1999 or permission of the Department of French Studies.
3 lecture/tutorial/hours, 1.0 course. Distance.

2905A - LANGUAGE AND READING
Intensive grammar review with emphasis on textual analysis, and understanding various forms of writing (2 hours lecture + 1 hour tutorial). Oral practice in the language laboratory (1 hour).
Antirequisite(s): French 2101, French 2900.

Prerequisite(s): French 1900E or French 1910 or French 1999 or permission of the Department of French Studies, based on Placement Test.
3 or 4 lecture/tutorial hours. 0.5 course. Distance.

2906B - LANGUAGE AND EXPRESSION
A review of selected elements of grammar with an emphasis on written and oral expression (2 hours lecture + a hour tutorial). Oral practice in the language laboratory (1 hour).
Antirequisite(s): French 2111, French 2900.
Prerequisite(s): French 1900E or French 1910 or French 1999 or permission of the Department of French Studies, based on Placement Test.
3 or 4 lecture/tutorial hours. 0.5 course. Distance.

3894A - FRENCH PRONUNCIATION 1
Introduces students to the analysis of the sound system of the French language and the differences between the English and the French phonetic systems. Students will learn to identify and adjust non-native patterns of pronunciation through comparative analysis, listening exercises, phonetic transcriptions, pronunciation practice in class and recordings.
Prerequisite(s): French 2900 or by permission of the Department.
3 lecture hours, 0.5 course. Summer Day.

3900 - LANGUAGE (ADVANCED LEVEL III)
Grammar, composition, translation and oral practice. (One hour per week in the language laboratory may be required.)
Antirequisite(s): French 3905A/B, French 3907A/B, French 3908A/B.
Prerequisite(s): 1.0 course from French 2905A/B, French 2907A/B or French 2900, or permission of the Department of French Studies, based on Placement Test.
3 or 4 tutorial hours (Main). 3 or 4 lecture/tutorial hours (Brescia, Huron, King’s). 1.0 course. Distance.

GEOGRAPHY

2011A - ONTARIO AND THE GREAT LAKES
A detailed examination of the province as part of the Great Lakes region, with special reference to its historical development, natural resources and patterns of human and economic activity.
2 lecture hours. 0.5 course. Distance.

2090A - SPACE EXPLORATION
Survey of human activity in outer space, including history of spaceflight, scientific exploration, economic and military uses of space, natural resources and hazards, legal and ethical implications, and plausible future developments.
3 lecture hours. 0.5 course. Intersession.

2131A - THE NATURAL ENVIRONMENT
An examination of the characteristics, origins and history of selected natural environments with particular reference to North America.
Antirequisite(s): Geography 1300A/B.
2 lecture hours, 1 tutorial hour. 0.5 course. Distance.

2143A - FOUNDATIONS OF THE GEOGRAPHY OF WORLD BUSINESS
Geographical theories of local and international trade; relationships between the location of production and flows of goods, services and factors of production among countries and regions; the geographical patterns of world commerce.
2 lecture hours. 0.5 course. Intersession.

2152F - GEOGRAPHY OF HAZARDS
A survey of the methods and models used to understand human responses to hazards. The course reviews the rich tradition of hazards research in geography, particularly through the lens of social science. The course will include discussions of both so-called “natural hazards” (e.g., floods, fires, earthquakes) and “technological hazards” (e.g., nuclear technology, genetically modified organisms, terrorism, war) as examples.
Antirequisite(s): The former Geography 2152A/B.
3 lecture hours. 0.5 course. Intersession.
HEALTH SCIENCES

1002A - SOCIAL DETERMINANTS OF HEALTH
This course introduces key social determinants of health, and offers students to viewing health in relation to social factors, equity, and social justice. Students will be introduced to basic terms, concepts, and measurements related to health, public health, population health, and health inequalities.
Antirequisite(s): The former Health Sciences 1000.
3 lecture hours, 1 tutorial hour. 0.5 course. Intersession.

2300A - SYSTEMIC APPROACH TO FUNCTIONAL ANATOMY
A gross anatomical description of systemic function and structure of the human body, with emphasis on skeletal, muscular and cardiovascular systems. Integration between systems will be discussed using clinical examples related to sport, medicine, and physical therapy. This is an introductory level lecture course.
Antirequisite(s): Anatomy and Cell Biology 222L, Anatomy and Cell Biology 3319, Kinesiology 2222A/B.
Prerequisite(s): Grade 12U Biology or equivalent is strongly recommended.
Registration information: Students not in a Health Science program are limited to a 1.5 Health Science course load.
3 lecture hours, 1 laboratory hour. 0.5 course. Summer Evening.

3025A - INTEGRATIVE HEALTH
Integrative Health examines a variety of areas and issues concerning the broad field of integrative health. From an evidence-based perspective, the course explores integrative health domains and assesses the quantitative and qualitative evidence about these various forms of "alternative" health including, but not limited to Oriental medicine, mind-body interventions, manual therapies, and herbal/pharmacological approaches to integrative health and lifestyle decision-making.
Antirequisite(s): Former Health Sciences 4020A/B; Health Sciences 3039A, section 001 if taken in Fall 2011; Kinesiology 3372A, section 002 if taken in Fall 2011.
Prerequisite(s): Minimum of 60% (mandatory) in each of Health Sciences 1003A/B and Health Sciences 1002A/B.
3 lecture hours. 0.5 course. Intercession.

3801A - MEASUREMENT AND ANALYSIS IN HEALTH SCIENCES
An introduction to measurement and analysis in health sciences research, covering topics such as validity, reliability, standard errors, confidence intervals, tests of means, correlation, and linear regression.
Prerequisite(s): Health Sciences 2801 or the former Health Sciences 2800.
2 lecture hours, 1 laboratory hour. 0.5 course. Intercession.

HISTORY

1401E - MODERN EUROPE, 1715 TO THE PRESENT: CONFLICT AND TRANSFORMATION
Examines central events and themes of modern European history, including: origins and impact of the French and industrial revolutions; Napoleonic wars; liberalization and reaction; socialism; nationalism; women's emancipation movements; imperialism, national rivalries and world wars; the Russian Revolution and Communist rule, and the collapse of the Soviet Union; Nazism; European integration.
2 lecture hours, 1 tutorial hour (Main); 3 hours (Brescia, Huron, King's). 1.0 course. Distance.
1404E - HITLER, STALIN AND MUSSOLINI: THE TOTALITARIAN AGE
An introduction to the theory and practice of totalitarianism through a comparative study of regimes established by Hitler, Stalin and Mussolini. Topics include the seizure of power, personality cults, culture, education and propaganda, bio-politics, terror, war, the Holocaust, resistance movements.
Antirequisite(s): History 2145A/B, History 2147A/B, or the former History 1403E.
3 lecture hours. 1.0 course. Intercession.

2110A - FRAGILE FREEDOMS? HUMAN RIGHTS IN CANADA
This course examines the history of human rights in Canada. It explores the creation of rights linked to ethnicity, gender, language, religion, region, class and other characteristics. It asks why only some rights have been created and what factors have limited the development of rights.
Antirequisite(s): History 2187.
2 lecture hours. 0.5 course. Summer Evening.

2120B - NORTHERN ENTERPRISE: CANADIAN BUSINESS AND LABOR HISTORY
The development and effect of business in Canada from the late nineteenth century, with special emphasis on its social impact and the emergence of a Canadian labor movement.
Antirequisite(s): History 2125F/G, the former History 2213F/G.
3 hours. 0.5 course. Distance.

2147A - NAZI GERMANY
We analyze how the Nazi Party came to power; the regime's use of propaganda, intimidation and terror within Germany after 1933; Hitler's foreign policy; Nazi methods in occupied Europe; anti-Semitism, the Holocaust, and other programs of mass murder; resistance within Germany, and the reasons for the regime's defeat.
Antirequisite(s): History 1403E, History 2145A/B.
2 lecture hours. 0.5 course. Intercession.

2158A - FOOD IN WORLD HISTORY
This course explores the role of food in world history with an emphasis on international exchange and cultural interaction following the discovery of the Americas. Students will consider the impact and influence of food upon politics, trade, conflict, and other aspects of society and culture.
2 hours. 0.5 course. Summer Evening.

2301E - THE UNITED STATES, COLONIAL PERIOD TO THE PRESENT
Emphasis first term upon the emergence of the American nation, the egalitarian impulse, national expansion and sectional conflict; second term, upon the great transformations of the modern era: the growth of industrialism, big government, a pluralistic society, and international predominance.
Antirequisite(s): History 2302F/G, History 2710F/G.
2 lecture hours, 1 tutorial hour (Main). 3 lecture hours (Brescia, Huron, King's). 1.0 course. Distance.

2702E - TEN DAYS THAT SHOOK THE WORLD
The course examines ten separate days/events in world history since 1609 with an emphasis on the key role of interactions across cultures. Moving among the case studies, the goal of the course is not to gain total knowledge of the world, but to understand the processes by which we claim to know the world.
3 lecture hours. 1.0 course. Intercession.

HISTORY OF SCIENCE

2220 - INTRODUCTION TO THE HISTORY OF MEDICINE
An overview of the development of medicine from antiquity to the present, including the growth of medical sciences, concepts of disease, therapies, and the history of medical practice and institutions.
3 lecture hours. 1.0 course. Summer Evening.

2266F - COMMUNICATIONS
A social-psychological analysis of communication theory in the context of interpersonal small-group and large-group dynamics. Group exercises to improve communication skills and to stimulate discussion. Assignments and laboratories to provide an opportunity to prepare and present information within the scope of foods and nutrition and human ecology.
Antirequisite(s): Management and Organizational Studies 2205F/G, Health Sciences 3620A/B.

HUMAN ECOLOGY

2275F - PSYCHOLOGY OF EXERCISE
The central purpose of this course is to examine the psychological bases of exercise and physical activity. Emphasis is placed on understanding the motives and barriers underlying involvement in exercise and physical activity. The psychological benefits derived from acute and chronic involvement, the situational and personal determinants associated with failure to initiate and/or adhere to exercise and physical activity programs, the theoretical perspectives
advanced to account for involvement, and intervention strategies used to stimulate and/or maintain involvement in exercise and physical activity.

Prerequisite(s): Kinesiology 1070A/B or the former Kinesiology 2088A/B.

3 lecture hours. 0.5 course. Summer Evening.

2961A - FOUNDATIONS OF TRAINING TECHNIQUE
An introduction to the basic knowledge and techniques associated in designing exercise programs for beginners. Students will be expected to learn and put into practice techniques used to develop muscular endurance, muscular strength and cardiovascular fitness. The student will train for eight weeks.

Antirequisite(s): The former Kinesiology 2204Q/R/S/T. The former Kinesiology 2040A/B.

Prerequisite(s): Completion of the first year Kinesiology program and registration in the School of Kinesiology.

5 lecture/laboratory hours. 0.5 course. Summer Evening.

MANAGEMENT AND ORGANIZATIONAL STUDIES

1021A - INTRODUCTION TO CONSUMER BEHAVIOUR AND HUMAN RESOURCES
This course introduces students to the study of management and organizations based on best available evidence. Topics covered may include consumer behavior, human resource management, business processes, intercultural relations, and multinational corporations in a globalized economy. These topics are fundamental to understanding managing people, consumer choice, and global commerce.

Prerequisite(s): Enrolment in BMOS on Main Campus or Music Administrative Studies (MAS)

3 lecture hours. 0.5 course. Intersession.

1023A - INTRODUCTION TO ACCOUNTING AND FINANCE
This course provides students with a basic introduction to the fields of accounting and corporate finance. The accounting unit introduces students to basic accounting concepts from financial and managerial accounting. The corporate finance unit explains how financial markets work and how corporate managers use these markets to create and sustain corporate value.

Prerequisite(s): Enrolment in BMOS on Main Campus or Music Administrative Studies (MAS)

3 lecture hours. 0.5 course. Intersession.

2155A - ORGANIZATIONAL HUMAN RELATIONS
An examination of the theories and applications of managing human relations and the dynamics of interaction within organizations.

Prerequisite(s): Enrolment in BMOS.

3 lecture hours. 0.5 course. Intersession.

2181A - ORGANIZATIONAL BEHAVIOR
A multidisciplinary approach to the study of human behavior in organizations from the individual, group and organizational levels of explanation.

Antirequisite(s): At Main campus: MOS 2180.

Prerequisite(s): At Brescia: Huron’s King’s campus: MOS 2180, and King’s MOS 2180B. Special Topics, 2180-11 ONLY.

Prerequisite(s): Enrolment in BMOS or Music Administrative Studies (MAS).

3 lecture hours. 0.5 course. Distance.

2255A - ENTREPRENEURIAL THINKING
This course provides a broad overview of the principles, theories, and praxis of entrepreneurship, together with an understanding of the key tasks, skills, and attitudes required. It focuses on the “Effectuation” logic that serves entrepreneurs in the processes of opportunity identification and new venture creation based on existing resources.

Prerequisite(s): Completion of 5.0 1000-level courses.

3 lecture hours. 0.5 course. Intersession.

2275A - BUSINESS LAW I
An introduction to Canadian business law, including: tort law, contracts, property, employment, partnerships, corporations, debtors and creditors, bankruptcy and insolvency, sale of goods and consumer protection. Cases and current events are used to illustrate legal issues and to solve legal problems.

Antirequisite(s): Business Administration 4450A/B, Law 5510A/B, Law 5210A/B.

Prerequisite(s): Enrolment in BMOS or Honors Specialization in Urban Development or Technical Entrepreneurship Certificate (TEC).

3 lecture hours. 0.5 course. Distance.

2285A - GLOBAL BUSINESS ENVIRONMENT
This course examines the forces affecting businesses as they enter and operate in global markets. Students will learn theories and techniques which will help them understand how business managers decide to enter markets and what makes a given location a good fit for their operations.

Antirequisite(s): MOS 1020A/B.

Prerequisite(s): Business Administration 1220E.

3 hours. 0.5 course. Intersession.

2310A - FINANCE
This course provides overview of issues in financial management and corporate finance. Students will learn how financial managers make investment, financing and other decisions and the tools they use to make such decisions. Topics covered include time value of money, risk, valuation, capital structure, dividend policy and other selected issues.

Antirequisite(s): At Main campus: Financial Modelling 2555A/B, the former Actuarial Science 2555A/B and MOS 3310A/B.

Antirequisite(s): At Brescia campus: MOS 3300A/B.

Prerequisite(s): MOS 1020A/B or both MOS 1021A/B and MOS 1023A/B and enrolment in BMOS or Music Administrative Studies (MAS).

3 lecture hours.

Note: Students interested in pursuing an HBA Degree at the Richard Ivey School of Business should not take this course in second year as Ivey does not recognize this course as part of the HBA degree. 0.5 course. Distance. Intersession.

2320A - MARKETING
An introduction to the role of marketing in the organization including information systems, corporate strategy, opportunities assessment, product differentiation, pricing strategies, distribution, communication and advertising.

Antirequisite(s): MOS 3320A/B.

Prerequisite(s): MOS 1020A/B or both MOS 1021A/B and MOS 1023A/B and enrolment in BMOS or Music Administrative Studies (MAS). 3 lecture hours.

Note: Students interested in pursuing an HBA Degree at the Richard Ivey School of Business should not take this course in second year as Ivey does not recognize this course as part of the HBA degree. 0.5 course. Distance. Intersession.

3310A - FINANCE FOR MANAGEMENT AND ORGANIZATIONAL STUDIES
An introduction to the role of financial management including financial markets and analysis, working capital management, capital budgeting and long-term financing.

Antirequisite(s): MOS 2310A/B.

Prerequisite(s): Business 2257 and enrolment in BMOS.

3 lecture hours. 0.5 course. Intersession.

3360A - INTERMEDIATE ACCOUNTING I
Theory and concepts of financial accounting with particular emphasis on financial statements, revenue recognition, and current and long-term assets.

Antirequisite(s): Business Administration 4417A/B.

Prerequisite(s): Business Administration 2257 and enrolment in 3rd or 4th year of BMOS or Music Administrative Studies (MAS).

3 lecture hours. 0.5 course. Summer Evening.

3370A - MANAGEMENT ACCOUNTING
What does it cost? This question is asked in every organization. The determination of cost is a key accounting process that supports decision making. This course will cover management accounting techniques related to cost: behaviour, allocation, determination, and strategic cost management cost.

Antirequisite(s): At Main: Business Administration 3307K, the former Business Administration 4407Q/R/S/T.

Antirequisite(s): At Brescia, Huron, King’s: Business Administration 3307K, Business Administration 4407Q/R/S/T, the former MOS 3372.

Prerequisite(s): Business Administration 2257 and enrolment in third or fourth year of BMOS; Honors: Specialization in Urban Development or Music Administrative Studies (MAS).

3 lecture hours. 0.5 course. Distance. Intersession.

3385A - ESSENTIALS OF HUMAN RESOURCES FOR NON HR STUDENTS
An introduction to human resources management (HRM) processes in organizations. Topics include: history of HRM, role of HRM departments in organizations, basics in job design, staffing analysis, recruitment and selection.

Antirequisite(s): MOS 4465F/G.

Prerequisite(s): Enrollment in 3rd or 4th year of the BMOS program.

3 lecture hours. 0.5 course. Summer Day.

4410A - STRATEGIC MANAGEMENT
Identification and analysis of problems and strengths in the organizational environment, using models from the social sciences. Strategies designed to deal with organizational challenges will be explored.

Prerequisite(s): Enrollment in 4th year of BMOS.

3 lecture hours. 0.5 course. Distance.

4465A - ADVANCED ACCOUNTING
Advanced financial accounting topics including international accounting and Canadian accounting treatment of intercorporate investments, business combinations, foreign currency transactions and translation, and accounting for not-for-profit organizations.

Prerequisite(s): At Main Campus: Business Administration 4427A/B.

Prerequisite(s): At Huron’s King’s campus: Business Administration 4427A/B and the former MOS 4440A/B and MOS 4461A/B.

Prerequisite(s): MOS 3361A/B and enrolment in 4th year of BMOS.

3 lecture hours. 0.5 course. Summer Evening.

MATHEMATICS

1225A/B - METHODS OF CALCULUS
Elementary techniques of integration; applications of Calculus such as area, volume, and differential equations; functions of several variables. Lagrange multipliers. This course is intended primarily for students in the Social Sciences, but may meet minimum requirements for some Science modules. It may not be used as a prerequisite for any Calculus course numbered 1300 or above.

Antirequisite(s): At Main campus: Applied Mathematics 1201A/B, Applied Mathematics 1413, Calculus 1301A/B, Calculus 1501A/B, Mathematics 1230A/B. If Calculus 1000A/B or Calculus 1500A/B was completed after September 1, 2016 it is an antirequisite, but not if it was completed before that time.

Prerequisite(s): At Brescia, Huron’s King’s campus: Applied Mathematics 1201A/B, Applied Mathematics 1413, Calculus 1301A/B, Calculus 1501A/B, Mathematics 1230A/B, Calculus 1000A/B or Calculus 1500A/B taken after September 1, 2016. Prerequisite(s): Ontario Secondary School MCV4U or Mathematics 0110A/B.

3 lecture hours. 0.5 course. Summer Evening, Intersession.

1228A/B - METHODS OF FINITE MATHEMATICS
Permutations and combinations; probability theory. This course is intended primarily for students in the Social Sciences, but may meet minimum requirements for some Science modules.

Antirequisite(s): Mathematics 2124A/B, Mathematics 2155F/G, the former Mathematics 2155A/B. Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2587A/B.

Prerequisite(s): One or more of Ontario Secondary School MCV4U, MHF4U, MDM4U, Mathematics 0110A/B, Mathematics 1225A/B, Mathematics 1229A/B.

3 lecture hours. 0.5 course. Summer Evening, Intersession.

1229A - METHODS OF MATRIX ALGEBRA
Matrix algebra including vectors and matrices, linear equations, determinants. This course is intended primarily for students in the Social Sciences, but may meet minimum requirements for some Science modules.


Prerequisite(s): One or more of Ontario Secondary School MCF3M, MCR3U, or equivalent.

3 lecture hours. 0.5 course. Summer Day.
Evening.

COURSE DESCRIPTIONS

37

as communication, the potential link between advertising and media studies. This course will examine some of the issues that arise from information-related interests, public service organizations, and community groups. In addition, a faculty supervisor will grade the internship will require students to make connections with academic study while undertaking supervised duties in organizations and businesses with media-related or information-related interests, public service organizations, and community groups. The student is required to) maintain a suitable level of performance in the position as verified by the employer through evaluations and b) submit a mid-term as well as a final report, demonstrating how the experience gained through the internship relates to his/her coursework and program of study.

Prerequisite(s): MIT 3990F/G, MIT 3991F/G.

The MIT Academic Internship II is an unpaid, credit internship for up to four months, or a minimum of 140 hours. The internship will require students to make connections with academic study while undertaking supervised duties in organizations and businesses with media-related or information-related interests, public service organizations, and community groups. The student is required to) maintain a suitable level of performance in the position as verified by the employer through evaluations and b) submit a mid-term as well as a final report, demonstrating how the experience gained through the internship relates to his/her coursework and program of study.

Prerequisite(s): Registration in the third or fourth year of a module in MIT, or a module in MIT with a minimum cumulative average of 72%, and have no failures or documented academic offences. Approval of, and acceptance into, an internship placement. The internship is given 0.5 course credit, and will show on the student’s transcript as Pass with Distinction, Pass, or Fail. 0.5 course. Summer Evening. Intersession. Summer Day.

3900F - MIT ACADEMIC INTERNSHIP I

The MIT Academic Internship is an unpaid, credit internship for up to four months, or a minimum of 140 hours. The internship will require students to make connections with academic study while undertaking supervised duties in organizations and businesses with media-related or information-related interests, public service organizations, and community groups. The student is required to) maintain a suitable level of performance in the position as verified by the employer through evaluations and b) submit a mid-term as well as a final report, demonstrating how the experience gained through the internship relates to his/her coursework and program of study.

Prerequisite(s): MIT 3990F/G, MIT 3991F/G.

Corequisite(s): MIT 3950E or MIT 3951F/G.

The internship is given 0.5 course credit, and will show on the student’s transcript as Pass with Distinction, Pass, or Fail. 0.5 course. Summer Evening. Intersession. Summer Day.

3900G - MIT ACADEMIC INTERNSHIP II

The MIT Academic Internship II is an unpaid, credit internship for up to four months, or a minimum of 140 hours. The internship will require students to make connections with academic study while undertaking supervised duties in organizations and businesses with media-related or information-related interests, public service organizations, and community groups. The student is required to) maintain a suitable level of performance in the position as verified by the employer through evaluations and b) submit a mid-term as well as a final report, demonstrating how the experience gained through the internship relates to his/her coursework and program of study.

Prerequisite(s): MIT 3990F/G, MIT 3991F/G.

Corequisite(s): Registration in the third or fourth year of a module in MIT, or a module in MIT with a minimum cumulative average of 72%, and have no failures or documented academic offences. Approval of, and acceptance into, an internship placement. The internship is given 0.5 course credit, and will show on the student’s transcript as Pass with Distinction, Pass, or Fail. 0.5 course. Summer Evening. Intersession. Summer Day.

3901F - MPI ACADEMIC INTERNSHIP I

The MPI Academic Internship I places undergraduate students in unpaid positions where they work in a new and challenging cultural milieu for community groups, non-government organizations and public services with media- and information- related interests. Placements are selected and supervised by instructors in consultation with the Undergraduate Affairs Committee.

Prerequisite(s): MIT 3909F/G-Z, MIT 3901F/G-Z.

The internship is given 0.5 course credit, and will show on the student’s transcript as Pass with Distinction, Pass, or Fail. 0.5 course. Intersession.

3901G - MPI ACADEMIC INTERNSHIP II

The MPI Academic Internship II places undergraduate students in unpaid positions where they work in a new and challenging cultural milieu for community groups, non-government organizations and public services with media- and information- related interests. Placements are selected and supervised by instructors in consultation with the Undergraduate Affairs Committee.

Prerequisite(s): MIT 3909F/G-Z, MIT 3901F/G-Z.

The internship is given 0.5 course credit, and will show on the student’s transcript as Pass with Distinction, Pass, or Fail. 0.5 course. Intersession.

MEDICAL SCIENCE

4931G - SELECTED TOPICS IN MEDICAL SCIENCES

An introduction to the basic medical sciences through a discussion and investigation of selected topics in medical sciences. Topics will focus on human diseases or conditions which are most common or result in most illness and death or burden to the health system (e.g., diabetes, obesity, cancer, neurodegenerative disease).

Antirequisite(s): Medical Sciences 4393F/G.

Prerequisite(s): Registration in Year 4 of a BMSc, BSc, BESc or BHSc degree, with the exception of the Honors Specialization in IMS, or permission of the instructor.

Course: 3 lecture/tutorial hours/week or equivalent online delivery. 0.5 course. Distance.

MUSIC

1122A - FUNDAMENTALS OF MUSIC THEORY

A concise introduction to music theory that will develop both practical and intellectual fluency with musical skills and concepts. Not available for credit for music students.

3 hours. 0.5 course. Distance.
PHYSICS

1301A - INTRODUCTION TO PHYSICS I
An introductory calculus-based laboratory course in physics covering the foundational principles of kinematics, force and motion, energy, linear momentum, rotation and angular momentum, gravitation, fluids.


Prerequisite(s): Grade 12U Calculus and Vectors (MCV4U) or Mathematics 0110A/B.
3 lecture hours, 3 laboratory/tutorial hours.

1302B - INTRODUCTION TO PHYSICS II
An introductory calculus-based laboratory course in physics covering the foundational principles of oscillations, waves, electric fields and potential, DC circuits, magnetic fields, magnetic induction.

Antirequisite(s): Physics 1021, Physics 1029A/B, Physics 1402A/B, Physics 1502A/B, the former Physics 1020, Physics 1024, Physics 1026.

Prerequisite(s): one of Physics 1301A/B or Physics 1401A/B or Physics 1501A/B, or a minimum mark of 70% in Physics 1028A/B.
3 lecture hours, 3 laboratory/tutorial hours.

Note: The department recommends that students also take a concurrent course that includes Calculus. This course, together with Physics 1301A/B, is a suitable prerequisite for modules having an introductory physics requirement (including modules in the Faculty of Science, modules offered by the basic Medical Science departments, and professional schools having a physics requirement). 0.5 course. Summer Evening.

PHYSIOLOGY

2130 - HUMAN PHYSIOLOGY
A survey course outlining the principles of human/mammalian physiology: general properties of the living cell and internal environment; neural, muscle, cardiovascular, respiratory, gastrointestinal, renal and endocrine system; metabolism, reproduction, and homeostasis.

Antirequisite(s): Physiology 1020, Physiology 1021, Physiology 3120.
Prerequisite(s): First-year courses in Biology and Chemistry are recommended.
2 lecture hours, 1 tutorial hour. 1.0 course. Distance.

PHYSIOLOGY AND PHARMACOLOGY

4980E - SEMINAR AND RESEARCH PROJECT
A major laboratory project in Physiology or Pharmacology, which emphasizes experimental design, instrumentation, collection and analysis of data and communication of experimental results by oral, poster and written presentations. Students will select the physiology or pharmacology project from a list provided by the department and be matched to a supervisor.

Antirequisite(s): the former Pharmacology 4980E, the former Physiology 4980E.
Prerequisite(s): Physiology and Pharmacology 3000E or the former Pharmacology 35802 or the former Physiology 31302; Physiology 3120 and 31240A; and registration in Year 4 of one of the following Honors Specialization modules: Pharmacology, Physiology or Pharmacology and Physiology. Minimum 15 laboratory hours per week plus 2 seminar hours in alternate weeks, 1.0 course. Summer Day.

POLITICAL SCIENCE

1020E - INTRODUCTION TO POLITICAL SCIENCE
An introduction to the study of politics. The course focuses on ideas (including politics, power, democracy, justice, freedom), ideologies (including liberalism, conservatism, socialism, feminism), institutions (including the nation-state, constitutions, legislatures, executives, the judiciary), political
mobilization (participation, elections, parties, interest groups), and research skills, emphasizing Canadian, comparative, and international examples.

3 lecture hours. 1.0 course. Distance.

2219E - THE POLITICS OF HUMAN RIGHTS
A lecture course on the political dimensions of human rights. The course begins by examining the meaning and interpretations of human rights, and then discusses the application of the human rights discourse in real world situations both within states and at the international level.

Antirequisite(s): Political Science 3388E.
Prerequisite(s): Political Science 1020E.
3 lecture hours. 1.0 course. Distance.

2230E - CANADIAN GOVERNMENT AND POLITICS
An examination of selected problems in Canadian government and politics, such as federalism, political parties and pressure groups.

Antirequisite(s): Political Science 2103A/B, Political Science 2130, Political Science 2133A/B.
Prerequisite(s): Political Science 1020E.
3 hours. 1.0 course. Distance.

2231E - INTERNATIONAL RELATIONS
This course surveys contemporary world politics and examines contending theories used by scholars and policymakers to make sense of international affairs. It also provides the conceptual tools and theories to interpret the international system.

Antirequisite(s): At Main campus: Political Science 2131.
Antirequisite(s): At Brescia, Huron, King’s campus: International Relations 2701E, Political Science 2131.
Prerequisite(s): Political Science 1020E.
3 hours. 1.0 course. Distance.

2237E - INTRODUCTION TO POLITICAL THEORY
An examination of central themes and issues in the history of political thought from ancient to modern times.

Antirequisite(s): Philosophy 2800F/G, Political Science 2801F/G, Political Science 2802E.
Prerequisite(s): Political Science 1020E.
3 hours. 1.0 course. Distance.

2246E - PUBLIC ADMINISTRATION AND POLICY
This course explores many of the inner workings of government. Students will be introduced to selected research and issues in public administration and public policy in the context of Canada’s federal system. Topics include the politics-administration interface, intergovernmental relations, representative bureaucracy, the policy process, and citizen engagement, among others.

Antirequisite(s): Political Science 2146, Political Science 2218F/G.
3 lecture hours. 1.0 course. Distance.

2270E - WOMEN AND POLITICS
This course focuses on how women participate and affect political change. It examines women's subordination and the wide-range of emancipatory struggles women have undertaken to achieve equality.

Antirequisite(s): Political Science 2255F/G, Political Science 3207F/G.
Prerequisite(s): Political Science 1020E or Women's Studies 1020E or registration in Honors Specialization or Major modules in Social Justice and Peace Studies.
3 hours. 1.0 course. Distance.

2303F - INTRODUCTION TO CANADIAN LAW
A study of the origins and development of the Canadian legal system, with an emphasis on the history and interpretation of the Canadian constitution, the place of the courts, and the role of law in society.

3 lecture hours. 1.0 course. Distance.

2324F - INTRODUCTION TO RESEARCH METHODS IN POLITICAL SCIENCE
This course introduces students to a range of methodological approaches to questions in political science. Students will become familiar with qualitative and quantitative data sources and ways of using each to address political issues.

2336E - INTERNATIONAL CONFLICT MANAGEMENT
An examination of theories and strategies of international conflict and conflict management, including the causes of war, arms control, and various methods of reducing or eliminating conflict.

Prerequisite(s): Political Science 2231E or Political Science 2246E or International Relations 2701E, or the former International Relations 2701E.
2 hours. 1.0 course. Distance.

4931E - RESEARCH REPORT
Prerequisite(s): Political Science 4910A/B, Political Science 4912A/B, Political Science 4913A/B, Political Science 4914A/B.
1.0 course. Intersession.

PSYCHOLOGY

0030A - INTRODUCTION TO PSYCHOLOGICAL PRINCIPLES
This course introduces students to the biological bases (evolutionary, genetic, and physiological) of behaviour. The course surveys core areas of psychology including behaviour genetics, evolutionary psychology, brain and behaviour, sensation and perception, learning, states of consciousness, motivation and emotion, and cognition.

Prerequisite(s): Registration in a Preliminary Year program at Brescia University College.
3 hours. 0.5 course. Summer Evening.

0035B - APPLICATION OF PSYCHOLOGICAL PRINCIPLES
An introduction to the application psychology in different contexts. This course surveys core areas of psychology including development over the life span, personality, behaviour in a social context, psychological disorders and their treatment, and applications of psychology in areas such as industrial/organizational, educational, and health psychology.

Prerequisite(s): Psychology 0030A/B and registration in a Preliminary Year Program at Brescia University College.
3 hours. 0.5 course. Summer Evening.

1000 - INTRODUCTION TO PSYCHOLOGY
An introductory survey of the methods and findings of modern scientific psychology. The following topics will be covered: history and methodology, biological psychology, sensation and perception, learning and motivation, verbal and cognitive processes, developmental psychology, social psychology, individual differences (intelligence and personality), and clinical psychology.

Antirequisite(s): Psychology 1000N/X, Psychology 1100E.
Note for Brescia, Huron, King’s, Psychology 1000, and Psychology 1000N/X will not serve as a substitute for Psychology 1100E for entry into any psychology module at Huron, nor will it provide access to any senior psychology course at Huron that requires Psychology 1100E.
3 lecture hours. 1.0 course. Distance. Summer Evening.

2020A - DRUGS AND BEHAVIOR
Survey of the major drugs of abuse used to treat psychological disorders including a brief section on methods of administration, drug distribution and elimination, neurotransmitters. The history and patterns of use and abuse, clinical indications, neurochemical bases for action for a variety of licit and illicit drugs.
3 lecture hours. 0.5 course. Intersession.

2030A - THE MALADJUSTED MIND
This course will survey the various categories of maladjusted behavior and consider different explanatory models and treatment strategies for the control of such behavior. Theories of human adjustment and maladjustment will be reviewed.

Prerequisite(s): Psychology 2050, Psychology 2310A/B and Psychology 3310F/G.
3 lecture hours. 0.5 course. Distance.

2035A - UNDERSTANDING YOURSELF AND OTHERS
This course examines ways in which recent research findings in psychology may be applied in the individual’s life.

Emphasis on psychology as an empirical science and on avenues of self-understanding and personal growth. Topics include: decision making and coping, person perception, interpersonal communication, friendship, love, sexuality, vocational development.

Prerequisite(s): Psychology 2050.
3 lecture hours. 0.5 course. Distance.

2036A - THE PSYCHOLOGY OF PHYSICAL HEALTH AND ILLNESS
This course will cover the role of psychological factors in the prevention of illness and the maintenance of good health and treatment of already-existing illness. Topics will include the stress/illness relationship, psychological influences on physical symptom perception and reporting, personality and health, behavioral factors in disease, coping, adherence and compliance.

Prerequisite(s): Psychology 2330A/B, Psychology 3330F/G.
3 lecture hours. 0.5 course. Distance.

2040A - CHILD DEVELOPMENT
A survey of theory and research in developmental psychology including learning, cognition, perception, personality, and social development in infancy and childhood.

Prerequisite(s): Psychology 2410A/B, Psychology 2480E and the former Psychology 204A.
3 lecture hours. 0.5 course. Distance.

2070A - SOCIAL PSYCHOLOGY
An introduction to the theories, methods, findings and problems encountered in the study of people as social beings.

Prerequisite(s): Psychology 2720A/B, Psychology 2780E.
3 lecture hours. 0.5 course. Intersession.

2075 - HUMAN SEXUALITY
A survey of the psychological study of human sexual behavior. Topics include history, methodology, theory, anatomy, physiology, attraction, sexual function, sexual orientation, contraception, conception and birth, sexual health and sexual coercion, and pornography.
3 lecture hours. 1.0 course. Distance.

2115A - INTRODUCTION TO SENSATION AND PERCEPTION
An introduction to the study of the human senses and higher order perceptual processes. Data gathered from psychophysical research and studies of the nervous system in both humans and other animals will be discussed. The course will review the mechanisms and principles of operation of vision, hearing, touch, taste and smell.

Antirequisite(s): Psychology 2015A/B.
Prerequisite(s): At least 60% in a 1000 level Psychology course.
4 lecture hours. 0.5 course. Intersession.

2135A - COGNITIVE PSYCHOLOGY
An introduction to empirical, computational, and theoretical approaches to the study of human cognitive processes. The topics surveyed will include: perception, attention, memory, concepts, language and problem-solving. The course will show how these diverse psychological processes are related to and influence one another.

Antirequisite(s): Psychology 2010A/B, Psychology 2180E.
Prerequisite(s): At least 60% in a 1000 level Psychology course.
4 lecture hours. 0.5 course. Distance.

2220A - INTRODUCTION TO BEHAVIOURAL AND COGNITIVE NEUROSCIENCE
Structure and function of the nervous system in relation to behaviour. The physiological basis of the major aspects of behavior in human and other animals (principally mammals) will be covered, including: sensorimotor control, sleep and waking cycles, reproduction, ingestion, aggression, learning, memory, communication and behavioral disorders. Some background in biology is desirable. This course is the normal prerequisite for Psychology 3296F/G.

Antirequisite(s): Neuroscience 2000, Psychology 2221A/B.
Prerequisite(s): At least 60% in a 1000 level Psychology course.
3 lecture hours. 0.5 course. Intersession.
2221A - INTRODUCTION TO BIOLOGICAL BASIS OF BEHAVIOUR
An introduction to the principles of evolutionary biology, genetics, and physiology in relation to behavior. This course is intended as an introduction to the biological basis of behavior for students who have a background in biology.
Antirequisite(s): Neuroscience 2000, Psychology 2220A/B.
Prerequisite(s): At least 60% in a 1000 level Psychology course.
3 lecture hours. 0.5 course. Intersession.

2550A - INTRODUCTION TO PERSONALITY THEORY AND RESEARCH
A survey of the history, methodology and content of the study of individual differences. Topics to be covered include: evaluation of typical personality assessment methods and a consideration of modern empirical research in personality theory and assessment.
Antirequisite(s): Psychology 2050 if taken before 2016.
Prerequisite(s): At least 60% in a 1000 level Psychology course.
4 lecture hours. 0.5 course. Intersession.

2720A - INTRODUCTION TO SOCIAL PSYCHOLOGY
An introduction to the theories, findings, methods, and problems encountered in the study of people as social beings. Emphasis will be placed on experimental research, conducted both in the laboratory and in the field. Content areas include: attitudes and social cognition, social interaction and influence, group processes and organizations of social psychology.
Antirequisite(s): Psychology 2070A/B, Psychology 2712F/G, Psychology 2780E.
Prerequisite(s): At least 60% in a 1000 level Psychology course.
2 lecture hours, 2 tutorial hours (Main), 3 lecture hours (Brescia, King’s), 0.5 course. Distance.

2820E - RESEARCH METHODS AND STATISTICAL ANALYSIS IN PSYCHOLOGY
An introduction to the design, conduct, and statistical analyses of psychological research. The intent is to provide students with knowledge of how to implement and evaluate research in both laboratory and applied settings. Design and statistical analysis will be taught in the context of studies and data sets from correlational, experimental, quasi-experimental and qualitative research. Written research projects will be required.
Prerequisite(s): At least 60% in a 1000 level Psychology course.
2 lecture hours, 2 tutorial hours (Main), 3 lecture hours (Brescia, King’s), 0.5 course. Distance.

3130A - PSYCHOLOGY OF THINKING
Theoretical and empirical studies on problem solving, reasoning, concept formation, thinking and cross-cultural variations in thinking processes.
Prerequisite(s): Psychology 2820E or both Psychology 2800E and Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B.
3 lecture/discussion hours. 0.5 course. Distance.

3227A - NEUROPSYCHOLOGY: BRAIN INJURY DIAGNOSIS, TREATMENT & RECOVERY
This course covers most statistical procedures used in this field of study. Topics include descriptive statistics, the normal distribution, probability, inferential statistics, and hypothesis testing. Also included will be discussion on the interpretation of statistics in other research designs including correlation, repeated samples testing and analysis of variance.
Prerequisite(s): At least 60% in a 1000 level Psychology course.
3 hours, 0.5 course. Summer Evening.

2851B - STATISTICS FOR PSYCHOLOGY II
This course expands on basic statistics with an aim at developing an understanding of the use and interpretation of statistics in more complex Psychological research designs. Topics include repeated samples testing, estimation, analysis of variance, correlation, simple linear regression and non-parametric tests.
Prerequisite(s): At least 60% in Psychology 2850A/B.
3 hours. 0.5 course. Summer Evening.

2990A - APPLICATIONS OF PSYCHOLOGY
The purpose of this course is to acquaint students with some of the ways in which psychological evidence and techniques can be applied to the practice of law, business, education, the health sciences, etc.
Prerequisite(s): At least 60% in Psychology 2850A/B.
3 lecture hours. 0.5 course. Distance.

3130A - PSYCHOLOGY OF THINKING
Theoretical and empirical studies on problem solving, reasoning, concept formation, thinking and cross-cultural variations in thinking processes.
Prerequisite(s): Psychology 2820E or both Psychology 2800E and Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B.
3 lecture/discussion hours. 0.5 course. Distance.

3228A - EVOLUTION AND PSYCHOLOGY: THE SCIENCE OF HUMAN NATURE
A survey of evolutionary approaches to the study of human behavior, including evolutionary psychology.
Antirequisite(s): Psychology 3229A/B.
Prerequisite(s): Psychology 1000 or Biology 1001 with a minimum grade of 60% and registration in third or fourth year.
3 lecture/discussion hours. 0.5 course. Distance.

370F - THE PSYCHOLOGY OF PROSOCIAL AND ANTI-SOCIAL BEHAVIOUR
The course will consider the social, situational and personality factors responsible for the occurrence of antisocial behaviors such as violence and aggression, and of prosocial behaviors such as helping others in disaster or crisis situations.
Prerequisite(s): Psychology 2820E or both Psychology 2800E and Psychology 2810 (or Psychology 2780E or permission of the Department).
3 lecture hours. 0.5 course. Distance.
2215B - INTRODUCTION TO SOCIAL WORK PRACTICE THEORIES AND SKILLS

Students are introduced to a number of contemporary theories that underlie the practice of social work. A communications laboratory offers a small group experiential means of learning about basic social work theory and interviewing skills. Required for admission to the Social Work program.

Antirequisite(s): The former Social Work 2204.
Prerequisite(s): Social Work 1021A/B and 1022A/B, or the former Social Work 1020, or permission of the School.
Pre- or Corequisite(s): Social Work 2244A/B
3 lecture hours. 0.5 course. Intersession.

4463A - SOCIAL WORK PRACTICE WITH CHILDREN AND ADOLESCENTS

An analysis of Social Work methodologies related to children and adolescents as vulnerable groups in society. Emphasis is on the use of specialized techniques with traumatized and bereaved children. Concepts of attachment, resilience, adaptation and coping are explored.

Prerequisite(s): Third-year social work courses.
3 lecture hours. 0.5 course. Intersession.

SOCIOLGY

0010A - UNDERSTANDING SOCIETY: SOCIAL LIFE AND SOCIAL INEQUALITY

This course considers how social forces impact people’s everyday lives. Topics include sociological theory, research methods, culture, socialization, crime and deviance, social interaction, social structure, groups, social class, race, gender, and sexual orientation.

Antirequisite(s): Sociology 3012.
For students registered in the Preliminary Year program only. 0.5 course. Intersession.

1020 - INTRODUCTION TO SOCIOLOGY

An examination of the major theoretical perspectives in the field of Sociology, methods of empirical investigation of social phenomena, socialization, group structure, principles of social organization, community structure, population and social change.

Antirequisite(s): At Main campus: Sociology 1021E.
Antirequisite(s): At Brescia, Huron, King’s: Sociology 1020W/X, 1021E.
2 lecture hours, 1 tutorial hour. 1.0 course. Summer Evening.
Intersession.

1021E - INTRODUCTION TO SOCIOLOGY

This course will cover the same material as Sociology 1020, but will also provide students with the opportunity to enhance their essay-writing skills while pursuing a project or projects involving sociological analysis.

Antirequisite(s): At Main campus: Sociology 1020.
Antirequisite(s): At Brescia, Huron, King’s: Sociology 1020, Sociology 1020W/X.
2 lecture hours, 1 tutorial hour. 1.0 course. Distance.

1026F - CONTROVERSIES IN SOCIOLOGY

Concepts of ourselves and society are often based on taken-for-granted meanings. This course critically analyzes these meanings in order to disclose what likely are their underlying economic, political, religious, educational and gender/sexual themes.

3 lecture hours. 0.5 course. Distance.

2340 - SOCIAL PROBLEMS

Survey of issues and theories in the study of social problems with particular attention to contemporary Canadian society.

2 lecture hours. 1.0 course. Distance.

2444A - SOCIOLOGY OF EDUCATION

A comprehensive study of educational institutions in modern society.

2 lecture hours. 0.5 course. Distance. Intersession.

2712A - ADVERTISING AND SOCIETY

The social role of advertising and public relations in society. Special emphasis is given to advertising content, the mechanisms of persuasion, and controversies over advertising effects on human behavior and socialization.

2 lecture hours. 0.5 course. Intersession.
2341A - APPLIED PROBABILITY AND STATISTICS FOR ENGINEERS
An introduction to statistics with emphasis on the applied probability models used in Electrical and Civil Engineering and elsewhere. Topics covered include samples, probability, probability distributions, estimation (including comparison of means), correlation and regression. Cannot be taken for credit in any 3-year or honors program or any module in Statistics, Actuarial Science, or Financial Modelling.


Prerequisite(s): Applied Mathematics 1413, or 0.5 course from Calculus 1000A/B, the former Calculus 1000A/B or Calculus 1500A/B, or 0.5 course from either Calculus 1301A/B or Calculus 1501A/B.

3 lecture hours, 1 tutorial hour. 0.5 course. Summer Evening.

2244B - STATISTICS FOR SCIENCE
An introductory course in the application of statistical methods, intended for honors students in departments other than Statistical and Actuarial Sciences. Applied Mathematics, Mathematics, or students in the Faculty of Engineering. Topics include sampling, confidence intervals, analysis of variance, regression and correlation. Cannot be taken for credit in any module in Statistics, Actuarial Science, or Financial Modelling.


Prerequisite(s): A full mathematics course, or equivalent, numbered 1000 or above. Statistical Sciences 1024A/B can be used to meet 0.5 of the 1.0 mathematics course requirement.

2 lecture hours, 3 lab hours. 0.5 course. Summer Evening.

THANATOLOGY
2231A - BEREAVEMENT AND GRIEF: OVERVIEW AND INTERVENTIONS
A study of bereavement and grief, with a review of topics such as attachment theory, the normal course of grief, current research and trends in bereavement theory and interventions, factors influencing the grief response, and specific types of loss and specific populations and grief. 3 lecture hours. 0.5 course. Distance.

2232A - CHILDREN AND DEATH: THEORY AND INTERVENTIONS
An examination of children’s understanding of death, the dying child, children and funerals, specific ages and interventions for the grieving child, the family system and death, and death and trauma in children. 3 lecture hours. 0.5 course. Distance.

2233A - SUICIDE: THEORY AND INTERVENTIONS
A study of suicide with emphasis on North American culture. Topics will include the epidemiology of suicide and current research on suicide, suicide across the life span, theories about suicide, suicide prevention, intervention, and grief after a suicide. 3 lecture hours. 0.5 course. Distance. Summer Evening.

3323A - GRIEF AND TRAUMA
An exploration of the intersection between grief, loss, and trauma in a variety of contexts. Theories of grief and trauma intervention will be applied to the role of first responders, death notification, traumatic response teams, unique features of sudden loss, and implications for treatment of survivors in various populations, as well as professional caregiver issues. 3 lecture hours. 0.5 course. Distance.

3355A - ETHICAL ISSUES IN DEATH, DYING AND BEREAVEMENT
Overview of ethical issues pertinent to end of life and bereavement aftercare. Exploration of various theoretical frameworks and specific relevant topics such as euthanasia, assisted suicide, informed choice and decision-making capacity, patient rights, research ethics, medical futility, resource allocation, and quality of life issues. 3 lecture hours. 0.5 course. Distance.

3360A - PRACTICUM IN THANATOLOGY
Students will be exposed to various care providers in the community that work with individuals and families facing death and experiencing grief after a loss. Focus will be on integration of theoretical knowledge with clinical application. Students with a clinical focus and background will be given priority.

Prerequisite(s): Thanatology 2200A, Thanatology 2230A/B, Thanatology 2211A/B. Class meets for 8 hours each Monday for the first seven weeks of term. Practicum is 45 additional hours in placement setting. 0.5 course. Summer Evening.

THEATRE STUDIES
3206G - SHAKESPEARE AND PERFORMANCE
An historical, theoretical, and analytical introduction to Shakespeare’s plays in performance. This course focuses on specific problems related to past productions and to those in the current Stratford Festival season. Class meets for three hours a day, five afternoons a week, and includes attendance at Shakespeare productions. Summer Day only.

Antirequisite(s): the former English 2042F/G. 0.5 course. Summer Day.

3207G - VOICE AND TEXT IN THE THEATRE
A workshop in which students will experience, with simple, practical exercises, the ways in which Festival actors develop and maintain their voices and explore various aspects of the text they are performing. The class meets for three hours, four mornings a week, taught by Stratford Festival staff. Summer Day only.

Antirequisite(s): the former English 2043F/G. 0.5 course. Summer Day.

3208G - WRITING FOR THE THEATRE
An introduction to the writing process of contemporary theatre practitioners. The course will give students a connection to the process of critical reflection. The former Writing 0002F/G, Writing 0002F/G, Writing 1021F/G, Writing 2101F/G, Writing 2102F/G.

3 lecture hours. [This course will not serve as a prerequisite for any area of concentration] 0.5 course. Summer Evening. Intersession.

WOMEN’S STUDIES
1023F - GAY LIFE AND CULTURE IN THE 21ST CENTURY: BEYOND ADAM AND STEVE
Judging by the media, you would think the only issue in gay life today is same-sex marriage. This course will examine many of the other issues affecting gay men, such as sexual politics and practices, body image, health, consumer culture, social media, television and film, and intersections with race and class.

3 hours. 0.5 course. Distance.

2203F - FUTURE SEX: SEX AND SCIENCE FICTION
Beginning with cutting edge contemporary practices, from sex reassignment surgery to virtual reality, this course will look at the ways in which we imagine the future of gender and sexuality. The focus will be primarily on science fiction texts that provide interesting alternatives to present-day ideas about sex and sexuality.

3 hours. 0.5 course. Distance.

2244 - WOMEN AND HEALTH
This course provides an overview of historical, social, economic, political and biological influences on women’s health. Using a feminist perspective, both experiential and theoretical, this course will examine many of the issues affecting women, such as cultural politics and practices, body image, health, consumer culture, social media, television and film, and intersections with race and class.

3 hours. 0.5 course. Distance.

ON CAMPUS AND DISTANCE STUDIES 2018
WOMEN’S STUDIES 2220E - HONORS THESIS IN WOMEN’S STUDIES
Individual instruction in the selection of a topic, the preparation of materials, and the writing of a thesis in Women’s Studies.

Prerequisite(s): Women's Studies 2220E or permission of the Department. Restricted to fourth-year Honors Women's Studies students.

3 hours. Limited enrollment. 1.0 course. Intersession.

4459F - SPECIAL TOPICS IN WOMEN’S STUDIES
Topics of current interest in Women’s Studies. Consult the Department of Women’s Studies and Feminist Research for current offerings.

Prerequisite(s): Women’s Studies 2220E, or permission of the Department.

3 hours. 0.5 course. Intersession.

WRITING
1002F - INTRODUCTION TO WRITING IN ENGLISH
This course is an introduction to academic writing for first-year English as a Second Language students in all disciplines. Topics range from grammar, sentence structure, and paragraphing to the principles of scholarly argument and research.

Antirequisite(s): The former Writing 0002F/G, Writing 1020F/G, Writing 1021F/G, Writing 2102F/G, Writing 2101F/G.

3 lecture hours. 0.5 course. Intersession. Summer Day.

1020F/G - WRITING: INTRODUCTION TO UNIVERSITY ESSAY WRITING
A practical introduction to the basics of successful academic writing, designed for first-year students in all disciplines. Topics will range from grammar, sentence structure, and paragraphing to the principles of scholarly argument and research.

Antirequisite(s): Writing 0002F/G, Writing 1021F/G, Writing 2102F/G, Writing 2101F/G.

3 lecture hours. [This course will not serve as a prerequisite for any area of concentration] 0.5 course. Summer Evening. Intersession.

2130F - BUILDING BETTER COMMUNICATION BRIDGES: RHETORIC & PROFESSIONAL COMMUNICATION FOR ENGINEERS
This course introduces students to rhetorical principles and the practices of written, oral, and visual communication in professional engineering contexts. Students will learn strategies for drafting and designing technical and academic documents and for approaching the editing and revision of those documents.

Antirequisite(s): The former Engineering Science 2211F/G.

Prerequisite(s): Engineering Science 1050.

3 hours. 0.5 course. Intersession.

499BF - RE-VISIONING SELF: CREATING YOUR PROFESSIONAL PORTFOLIO
In this half-course students will write new documents and revise documents written in previous Writing classes to include in a portfolio of their work. The portfolio will be both online and printed. Class time will be devoted to a combination of lecture and writing workshop.

Antirequisite(s): The former Writing 2299F/G.

Prerequisite(s): Two or more Writing courses numbered 2200 and above, or permission of the Department (consult the Undergraduate Program Director, Writing).

3 lecture hours 0.5 course. Distance.